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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/052,226	01/17/2002	Michio Takahashi	791_107 CIP	3497	
25191	7590 07/13/2004		EXAM	EXAMINER	
BURR & BROWN			WILLS, MONIQUE M		
PO BOX 7068 SYRACUSE, NY 13261-7068			ART UNIT	PAPER NUMBER	
			1746		
			DATE MAILED: 07/13/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

			\mathcal{A}				
	Application No.	Applicant(s)	J				
0.65°	10/052,226	TAKAHASHI, MIC	TAKAHASHI, MICHIO				
Office Action Summary	Examiner	Art Unit					
	Monique M Wills	1746					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a soly within the statutory minimum of the will apply and will expire SIX (6) MC te, cause the application to become a	a reply be timely filed nirty (30) days will be considered timel DNTHS from the mailing date of this c ABANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 30 A	Anril 2004						
,							
·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ☐ Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-5 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	awn from consideration.						
Application Papers							
9)☐ The specification is objected to by the Examine	er.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the	- · ·	, ,					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E							
Priority under 35 U.S.C. § 119							
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in prity documents have bee nu (PCT Rule 17.2(a)).	Application No n received in this National	Stage				
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No	Summary (PTO-413) p(s)/Mail Date Informal Patent Application (PTO	O-152)				

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DETAILED ACTION

Response to Amendment

This Office Action is responsive to the Amendment filed April 30, 2004. The rejection of claims 1-5 under 35 U.S.C. 102 (b) as being anticipated by Nemoto et al., U.S. Patent 6,368,750, is overcome. However, claims 1-5 are newly rejected under 35 U.S.C. 102(e) as being anticipated by Hemmer et al., U.S. Patent 6,080,510.

Claim Rejections ~ 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Hemmer et al., U.S. Patent 6,080,510.

With respect to claim 1, Hemmer teaches a lithium secondary battery, comprising a lithium manganese oxide cathodic material having a cubic spinel structure and a formula of $\text{Li}_y\text{Me}_x\text{Mn}_{2-x}\text{O}_4$, where Me represents a metal cation from groups IIa, IIIA, IVa, IIV, IIIb, IVb, Vb, VIIb, and VIII of the Periodic Table of Elements, x is $0 \le x \le 1$ and y is $0 < y \le 1.2$. See Abstract. Hemmer exemplifies specific cathodic materials that embrace the instant lithium manganese oxide, including: $\text{Li}(\text{Ti}_1)_{0.1}$ Mn_{1.9}O₄, where Me is Ti, y=1, x=0.1 and x1=1 (See

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Example 2) and Li(Ni₁)_{0.1} Mn_{1.9}O₄, where Me is Ni, y=1, x=0.1 and x1=1 (See Example 3). The limitation with respect to the cathodic material having a strength ratio (P₂/P₁ strength ratio) of a primary endothermal peak (P₁) appearing around 950°C and a secondary endothermal peak (P₂) appearing around 1100°C in differential thermal analysis, is 0.5 or less, is considered to be an inherent property of cathodic material of Hemmer, because products of identical chemical composition can not have mutually exclusive properties. A chemical composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are necessarily present. In re Spada, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). In the instant case, the cathodic material of Hemmer possesses said endothermal peak characteristics, because the chemical composition is identical to that of the subject invention.

In re claim 2, the Li/Mn ratio is 0.53, when Li=1 and Mn = 1.9 as illustrated in Examples 1-3.

As to claims 3-5, the claims are product-by-process claims rendering the same product as the prior art. The claims only differ from Hemmer by their method of production. In accordance with MPEP 2113, "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985). Therefore, since the process steps are not given patentable weight, the method limitations of claims 3-5 do not patentably distinguish the instant cathodic material from that of Hemmer.

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Response to Arguments

Applicant's arguments, see pages 2-3, filed April 30, 2004, with respect to the rejection(s) of claim(s) 1-5 under 35 U.S.C. 102(b) as being anticipated by Nemoto have been fully considered and are persuasive. Specifically, Applicant correctly asserts that Nemoto does not constitute prior art relative to the present application under 35 U.S.C. §102(b), because the reference was not patented more than one year prior to the instant application date. In addition, as evidence by the Declaration submitted April 30, 2004, Nemoto does not constitute prior art under 35 U.S.C. §102 (e), because the subject matter that anticipates any of instant claims 1-5, results solely from the invention by Mr. Takahashi alone. Therefore, the rejection under §102 as being anticipated by Nemoto, has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Hemmer et al., U.S. Patent 6,080,510.

Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Monique Wills whose telephone number is (571) 272-1309. The Examiner can normally be reached on Monday-Friday from 8:30am to 5:00 pm.

If attempts to reach Examiner by telephone are unsuccessful, the Examiner's supervisor, Michael Barr, may be reached at 571-272-1414. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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MW

07/09/04

MICHAEL BARR PRIMARY EXAMINER